JUN 2 1 2001

1651

TECH CENTER 1600/2550

RAW SEQUENCE LISTING DATE: 05/15/2001 PATENT APPLICATION: US/09/715,909 TIME: 11:31:45

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Output Set: N:\CRF3\05152001\1715909.raw

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	35												M	et G	ly Va	al G	lu Arg	
	36													1			5	
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	51	Leu	Ile	Pro	Gly	Pro	Thr	Arg	Glu	Glu	Val	Cys	Met	Glu	Asn	Phe	Leu	
	52		55	•			•	60					65					
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	55	Pro	Asp	Gln	Met	Ile	Gln	Val	Ile	Tyr	Met	Glu	Glu	Glu	Ile	Glu	Gly	
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	58	gac	gtc	atc	att	gcg	aag	ctt	aac	tat	caa	ggg	tcc	aac	acq	ccq	ata	464
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	60					90	-			•	95	-				100		
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Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\05152001\I715909.raw

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			TAT.	Glu	Thr	Ald		Met	GII	ser	Tyr		Pne	Ser	тте	GIn		
72		135					140					145						
74	gtg	gag	ggt	gaa	tca	cag	gcc	gta	ctg	gtg	qcq	ctq	qaq	ata	atc	aac	656	6
75	Val	Glu	Glv	Glu	Ser	Gln	Δla	va 1	T.e.i	Val	λla	T a ii	Čl ii	Tla	Val	λen		_
	150	010	U 1	024	001	155		,	,cu	, 41		LCu	Olu	110	· uı		•	
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78	atc	gac	gac	aat	ccg	ccc	atc	ctg	caa	gtg	gtc	agc	gcc	tgc	gta	att	704	4
79	Ile	Asp	Asp	Asn	Pro	Pro	Ile	Leu	Gln	Val	Val	Ser	Ala	Cys	Val	Ile		
80					170					175					180			
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02	CCa	gaa	cat	990	gay	gcc	aya	- CLG	acc	yac	Lyc	gra	Lac	Caa	gra	LCa	. 752	2
	Pro	GIU	HIS	Gly	GIu	Ala	Arg	Leu	Thr	Asp	Cys	Val	Tyr	GIn	Val	Ser		
84				185					190				• •	195				
86	qac	cgc	gac	ggt	qaa	atc	agc	acc	cac	ttc	ata	acq	ttc	cat	atc	αac	800)
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	АЗР	AT 9		Gry	GIU	116	Ser		ALG	rne	Mec	TIII		Arg	val	ASP		
88			200					205					210					
90	agc	agc	agg	gct	gca	gat	gaa	agc	atc	ttc	tac	atg	gtt	gga	gaa	tac	848	3
91	Ser	Ser	Arg	Ala	Ala	Asp	Glu	Ser	Ile	Phe	Tyr	Met	Val	Gly	Glu	Tyr		
92		215	-			-	220				•	225		-		4		
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		Pro	Ser	Asp	Trp		Asn	Met	Lys	Met	Thr	Val	GLY	Ile	Asn	Ser		
96	230					235					240					245		
98	ccc	tta	aac	ttc	gag	aca	act	caq	ctt	cat.	ata	ttt	aσc	atc	aca	act	944	1
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100 102 103 104 106 107	tct Ser gag Glu	gac Asp	tcg Ser gta Val	cta Leu 265 gag Glu	250 ccg Pro	aac Asn cgg	aac Asn	cac His cct	acg Thr 270 cgc	255 ggtc Val	acc Thr	atg Met	atg Met atc	gtg Val 275 ttc	260 caa Gln	gtg Val		
100 102 103 104 106 107 108	tct Ser gag Glu	gac Asp aac Asn	tcg Ser gta Val 280	cta Leu 265 gag Glu	250 ccg Pro tct Ser	aac Asn cgg Arg	aac Asn ccc Pro	cac His cct Pro	acg Thr 270 cgc	255 g gtc Val tgg	acc Thr gtg Val	atg Met gag Glu	atg Met atc Ile 290	gtg Val 275 ttc Phe	260 caa Gln tca Ser	gtg Val gtg Val		
100 102 103 104 106 107 108	tct Ser gag Glu	gac Asp aac Asn	tcg Ser gta Val 280	cta Leu 265 gag Glu	250 ccg Pro tct Ser	aac Asn cgg Arg	aac Asn ccc Pro	cac His cct Pro	acg Thr 270 cgc	255 g gtc Val tgg	acc Thr gtg Val	atg Met gag Glu	atg Met atc Ile 290	gtg Val 275 ttc Phe	260 caa Gln tca Ser	gtg Val gtg Val		10
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100 102 103 104 106 107 108 110 111 112 114	tct Ser gag Glu cag Gln	gac Asp aac Asn cag Gln 295	tcg Ser gta Val 280 ttt Phe	cta Leu 265 gag Glu gac Asp	250 ccg Pro tct Ser gag Glu	aac Asn cgg Arg aag Lys	aac Asn ccc Pro act Thr 300 aat	cac His Pro 285 aat Asn	acg Thr 270 cgc Arg Gln	255 gtc Val tgg Trp ago Ser	acc Thr gtg Val ttc Phe	gag Glu tcc Ser 305	atg Met atc Ile 290 ctc Leu	gtg Val 275 ttc Phe cgc Arg	260 caa Gln tca Ser gcg Ala	gtg Val gtg Val ata Ile	104	10
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100 102 103 104 106 107 108 110 111 112 114 115 116	gag Glu cag Gln gac Asp 310 gat	gac Asp aac Asn cag Gln 295 ggg Gly	tcg Ser gta Val 280 ttt Phe gac Asp	cta Leu 265 gag Glu gac Asp acg Thr	250 ccg Pro tct Ser gag Glu gga Gly	aac Asn cgg Arg Lys atc Ile 315	aac Asn ccc Pro act Thr 300 aat Asn	cac His cct Pro 285 aat Asn agg	acg Thr 270 cgc Arg Gln gcc Ala	255 y gtc val tgg Trp ago Ser ato	acc Thr gtg Val ttc Phe aac Asn 320	atg Met gag Glu tcc Ser 305 tat Tyr	atg Met atc Ile 290 ctc Leu acc Thr	gtg Val 275 ttc Phe cgc Arg ctc Leu	260 caa Gln tca Ser gcg Ala atc Ile	gtg Val gtg Val ata Ile agg Arg 325 gct	104	38
100 102 103 104 106 107 108 110 111 112 114 115 116 118	gag Glu cag Gln gac Asp 310 gat Asp	gac Asp aac Asn cag Gln 295 ggg Gly	tcg Ser gta Val 280 ttt Phe gac Asp	cta Leu 265 gag Glu gac Asp acg Thr	250 ccg Pro tct Ser gag Glu gga Gly gac Asp	aac Asn cgg Arg Lys atc Ile 315	aac Asn ccc Pro act Thr 300 aat Asn	cac His cct Pro 285 aat Asn agg	acg Thr 270 cgc Arg Gln gcc Ala	255 g gtc Val tgg Trp agc Ser atc	acc Thr gtg Val ttc Phe aac Asn 320 gtg Val	atg Met gag Glu tcc Ser 305 tat Tyr	atg Met atc Ile 290 ctc Leu acc Thr	gtg Val 275 ttc Phe cgc Arg ctc Leu	260 caa Gln tca Ser gcg Ala atc Ile gga Gly	gtg Val gtg Val ata Ile agg Arg 325 gct Ala	104 108	38
100 102 103 104 106 107 108 110 111 112 114 115 116 119 120	gag Glu cag Gln gac Asp 310 gat	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp	tcg Ser gta Val 280 ttt Phe gac Asp	cta Leu 265 gag Glu gac Asp Thr	250 ccg Pro tct Ser gag Glu gga Gly gac Asp	aac Asn cgg Arg aag Lys atc Ile 315 ttc	aac Asn ccc Pro act Thr 300 aat Asn ttt	cct Pro 285 aat Asn agg Arg	acg Thr 270 cgc Arg Cag Gln gcc Ala	255 g gtc Val tgg Trp age Ser ate Ile	acc Thr gtg Val ttc Phe aac Asn 320 gtg Val	atg Met gag Glu tcc Ser 305 tat Tyr	atg Met Ile 290 ctc Leu acc Thr	gtg Val 275 ttc Phe cgc Arg ctc Leu gac	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340	gtg Val gtg Val ata Ile agg Arg 325 gct Ala	104 108	38
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 120 122	gag Glu cag Gln gac Asp 310 gat Asp	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala	cta Leu 265 gag Glu gac Asp Thr	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act	aac Asn cgg Arg aag Lys atc Ile 315 ttc Phe	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe	cac His cct Pro 285 aat Asn agg Arg	acg Thr 270 cgc Arg Cag Gln gcc Ala ctg Leu	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val	atg Met gag Glu tcc Ser 305 tat Tyr att	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag	gtg Val gtg Val ata Ile agg Arg 325 gct Ala	104 108	38 36
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 120 122	gag Glu cag Gln gac Asp 310 gat Asp	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala	cta Leu 265 gag Glu gac Asp Thr	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act	aac Asn cgg Arg aag Lys atc Ile 315 ttc Phe	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe	cac His cct Pro 285 aat Asn agg Arg	acg Thr 270 cgc Arg Cag Gln gcc Ala ctg Leu	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val	atg Met gag Glu tcc Ser 305 tat Tyr att	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag	gtg Val gtg Val ata Ile agg Arg 325 gct Ala	104 108 113	38 36
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 120 122 123	gag Glu cag Gln gac Asp 310 gat Asp	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala	cta Leu 265 gag Glu gac Asp acg Thr gac Asp	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act	aac Asn cgg Arg aag Lys atc Ile 315 ttc Phe	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe	cac His cct Pro 285 aat Asn agg Arg	acg Thr 270 cgc Arg Cag Gln gcc Ala ctg Leu	255 gtc Val tgg Trp agc Ser atc Ile Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val	atg Met gag Glu tcc Ser 305 tat Tyr att	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag	gtg Val gtg Val ata Ile agg Arg 325 gct Ala	104 108 113	38 36
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 120 122 123 124	gag Glu cag Gln gac Asp 310 gat Asp	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala cac	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag	Met gag Glu tcc Ser 305 tat Tyr att Ile ctt Leu	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu	104 108 113 118	38 36 34
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 122 123 124 126	gag Glu cag Gln gac Asp 310 gat Asp att Ile	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala cac His	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345 acc	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act Thr	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe gag Glu	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe atc Ile	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac Asp	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc Arg 350 aaa	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag Lys	Met gag Glu tcc Ser 305 tat Tyr att Leu gac	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355 agc	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu ttt	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu	104 108 113	38 36 34
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 122 123 124 126 127	gag Glu cag Gln gac Asp 310 gat Asp att Ile	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala cac His	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act Thr	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe gag Glu	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe atc Ile	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac Asp	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc Arg 350 aaa	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag Lys	Met gag Glu tcc Ser 305 tat Tyr att Leu gac	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355 agc	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu ttt	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu	104 108 113 118	38 36 34
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 122 123 124 126	gag Glu cag Gln gac Asp 310 gat Asp att Ile	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala cac His	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345 acc	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act Thr	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe gag Glu	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe atc Ile	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac Asp	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc Arg 350 aaa	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag Lys	Met gag Glu tcc Ser 305 tat Tyr att Leu gac	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gaa Glu	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355 agc	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu ttt	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu	104 108 113 118	38 36 34
100 102 103 104 106 107 108 110 111 112 114 115 116 118 119 122 123 124 126 127 128	gag Glu cag Gln gac Asp 310 gat Asp att Ile ttc Phe	gac Asp aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu aac	tcg Ser gta Val 280 ttt Phe gac Asp gct Ala cac His ctc Leu 360	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345 acc	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act Thr atc Ile	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe gag Glu gtt Val	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe atc Ile gct Ala	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac Asp tac Tyr 365	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc Arg 350 aaa Lys	255 gtc Val tgg Trp ago Ser ato Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag Lys act	Met gag Glu tcc Ser 305 tat Tyr att Ile ctt Leu gac Asp	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gct Ala 370	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355 agc Ser	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu ttt Phe	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu gca Ala	104 108 113 118 123	38 36 34 32
100 102 103 104 106 107 108 110 111 112 114 115 116 118 129 123 124 126 127 128 130	gag Glu cag Gln gac Asp 310 gat Asp att Ile ttc Phe aca	aac Asn cag Gln 295 ggg Gly gac Asp ctg Leu aac Asn gag	tcg Ser Val 280 ttt Phe gac Asp gct Ala cac His ctc Leu 360 gcc	cta Leu 265 gag Glu gac Asp Thr gac Asp yal 345 acc	250 ccg Pro tct Ser gag Glu gga Gly gac Asp 330 act Thr atc Ile att	aacc Asn cgg Arg aag Lys atc Ile 315 ttc Phe gag Glu gtt Val	aac Asn ccc Pro act Thr 300 aat Asn ttt Phe atc Ile gct Ala	cac His cct Pro 285 aat Asn agg Arg tcc Ser gac Asp tac Tyr 365 atc	acg Thr 270 cgc Arg Gln gcc Ala ctg Leu cgc Arg 350 aaa Lys	255 gtc Val tgg Trp ago Ser atc Ile gag Glu 335 gac Asp	acc Thr gtg Val ttc Phe acc Asn 320 gtg Val aag Lys act Thr	Met gag Glu tcc Ser 305 tat Tyr att Ile ctt Leu gac Asp gtc	atg Met atc Ile 290 ctc Leu acc Thr gaa Glu gct Ala 370 aat	gtg Val 275 ttc Phe cgc Arg ctc Leu gac Asp aga Arg 355 agc Ser	260 caa Gln tca Ser gcg Ala atc Ile gga Gly 340 gag Glu ttt Phe cag	gtg Val gtg Val ata Ile agg Arg 325 gct Ala ctt Leu gca Ala	104 108 113 118	38 36 34 32

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Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\05152001\I715909.raw

132		375					200					205						
			~~~	a+ a	aa+	222	380	+	~~+			385	- 4					1056
134	CCC	gag	Des	e Lg	Cat	aaa	gaa	tac	agt	att	gat	atc	atg	gag	gaa	act		137.6
	Pro	GIU	PIO	Leu	HIS		GIU	туr	Ser	тте		ire	Met	GLu	GLu			
	390					395					400					405		
	cca																	1424
	Pro	Met	Thr	Leu		Phe	Asn	Glu	Glu		Gly	Phe	His	Asp	Arg	Asp		
140					410					415					420			
	ttg																	1472
	Leu	Gly	Glu		Ala	Gln	Tyr	Thr	Val	Glu	Leu	Glu	Asp	Val	Phe	Pro		
144				425					430					435				
	cca																	1520
147	Pro	Gly	Ala	Ala	Ser	Ala	Phe	Tyr	Ile	Ala	Pro	Gly	Ser	Gly	Tyr	Gln		
148			440					445					450					
150	agg	cag	acc	ttc	atc	atg	ggc	acc	ata	aac	cac	acc	atg	ctg	gat	tac		1568
151	Arg	Gln	Thr	Phe	Ile	Met	Gly	Thr	Ile	Asn	His	Thr	Met	Leu	Asp	Tyr		
152		455					460					465						
154	gaa	gat	gtc	att	ttt	cag	aac	atc	atc	att	aag	gtc	aaa	gca	gtg	gac		1616
155	Glu	Asp	Val	Ile	Phe	Gln	Asn	Ile	Ile	Ile	Lys	Val	Lys	Ala	Val	Asp		
156	470					475					480					485		
158	atg	aac	aac	gct	agc	cac	gtg	ggc	gag	gcg	ctg	gtg	tac	gtg	aac	ctq		1664
159	Met	Asn	Asn	Ala	Ser	His	Val	Gly	Glu	Ala	Leu	Val	Tyr	Val	Asn	Leu		
160					490			_		495			-		500		١	
162	atc	aac	tgg	aac	gac	gaa	ctt	ccc	atc	ttc	qaq	gag	agc	agc	tac	tcc		1712
	Ile																	
164			-	505					510					515	-1-			
166	gcg	tcg	ttt	aaq	gag	acc	qtc	qqc	qcc	qqc	ttc	cca	ata		acq	ata		1760
167	Ala	Ser	Phe	Lys	Glu	Thr	Val	Gly	Ála	Ğĺv	Phe	Pro	Val	Ãla	Thr	Val		_, , ,
168			520	_				525		-		•	530					
170	ctc	gcc	ctc	gac	aqa	qac	atc	qac	qac	qta	qta	ata	cat	tca	t.t.a	atσ		1808
171	Leu	Āla	Leu	Asp	Arq	Asp	Ile	Asp	Āsp	Val	Val	Val	His	Ser	Leu	Met		
172		535		-	-	_	540	-	-			545						
174	ggc	aac	gct	att	qac	tac	cta	ttc	ata	gat	gaa	t.ca	acq	σσα	αασ	atc		1856
175	Gly	Asn	Āla	Val	Asp	Tvr	Leu	Phe	Ile	Asp	Glu	Ser	Thr	Glv	Glu	Tle		2000
	550					555					560			021		565		
178	ttc	ata	agc	atq	gac	gat	acc	ttc	gac	tac		сда	саσ	aac	act			1904
179	Phe	Val	Ser	Met	Asp	Asp	Ala	Phe	Asp	Tvr	His	Ara	Gln	Asn	Thr	Leu		.1.704
180					570		,		<u>-</u> -	575		,			580	Leu		
182	ttt	at.t.	caq	ata		act	gac	gat	act		aac	αac	aac	cca		220		1952
183	Phe	Val	Gln	Val	Ara	Δla	Δen	Δen	Thr	Leu	Clv	Acn	Glu	Dro	Uic	Acn		1932
184				585	5		1101	1106	590	Deu	011	пор	O.L.Y	595	1113	No!!		
	aca	ata	acc		саσ	cta	ata	ata		cta	mam	na t	ata		220	2.0±		2000
187	Thr	Val	Thr	Thr	Cln	Lou	y - y 1/2 1	Tla	Clu	Lou	Clu	Nan	y.c	aac Aan	Aac	mb-		2000
188		, uı	600	1111	O I II	пси	Val	605	Giu	цец	GIU	ASP	610	ASII	ASII	1111		
	cct	CCC		cta	cac	tta	ccc		taa	a a t	003	2.00		~~~	<b>~</b> ~ ~	226		2040
																		2048
192	Pro	615	T 11T	Leu	мту	ьец	620	нтд	ser.	THE	PLO		val	GIU	GIU	ASN		
	a++		~~~	~~~	+			+	~~~	~~~		625						2006
	gtt																	2096
195	Val	LT.O	GIU	стА	TAT.		тте	ser	arg	GIU		Tnr	Ата	rnr	Asp			•
TAO	030					635					640					645		

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Input Set : A:\Seqlist.txt
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199	Asp	acc Thr	ago Ser	gcc Ala	Tyr	Leu	tgg Trp	ttc Phe	gag Glu	atc Ile	gac Asp	tgg Trp	gac Asp	tcc Ser	acc Thr	tgg Trp	2144
200		acc	aad	cad	650		gag	acc	220	655		<b>~</b> 22	+20	at a	660	tgt	2102
203 204	Ala	Thr	Lys	Gln 665	Gly	Arg	Glu	Thr	Asn 670	Pro	Thr	Glu	Tyr	Val 675	Gly	Cys	2192
206	ata	gtt	ato	gaa	acg	ata	tac	CCC	acc	gag	ggc	aac	cgg	ggt	tcc	gcc	2240
208	116	vai	680	Glu	THE	ire	Tyr	685		Glu	GIY	Asn	Arg 690	GLy	Ser	Ala	
210	atc	ggg	cgc	ctc	gtg	gtg	caa	gag	atc	cgg	gac	aac	gtc	acc	atc	gac	2288
211 212	Ile	Gly 695	Arg	Leu	Val	Val	Gln 700	Glu	Ile	Arg	Asp	Asn	Val	Thr	Ile	Asp	
				ttc	a a a	2+0		+20	ata	200	~+ ~	705				- 4 -	
215	Phe	Glu	Glu	Phe	Glu	Mot	Tou	Tur	LOU	acc mb~	gtc	cgc	gtg	agg	gac	ctc	2336
216	710	Olu	Olu	rne	Giu	715	Leu	TAT	ьеи	1111	720	Arg	vai	Arg	Asp		
		act	atc	at <u>c</u>	ααa		gac	tac	a t	asa		200	++0	200	-+-	725	2204
219	Asn	Thr	Val	Ile	Glv	Asp	Asn	Tvr	Asn	Glu	Δla	Thr	Dho	Thr	Tlo	aCa ™hr	2384
220					730					735					740		
222	ata	atc	gac	atg	aac	gac	aac	gcg	ccg	atc	ttc	gcg	aac	ggc	acg	ctg	2432
223 224	Ile	Ile	Asp	Met 745	Asn	Asp	Asn	Ala	Pro 750	Ile	Phe	Ala	Asn	Gly 755	Thr	Leu	
226	acg	cag	acg	atg	cgc	gtg	cgc	gag	ctg	gcg	gcc	agc	ggc	acg	ctc	atc	2480
227 228	Thr	Gln	Thr 760	Met	Arg	Val	Arg	Glu 765	Leu	Ala	Ala	Ser	Gly 770	Thr	Leu	Ile	
	aac	tcc		ctc	acc	acc	gac		gac	aac	cca	ctc		220	<b>C</b> 2 2	ata	2520
231	Gly	Ser	Val	Leu	Ala	Thr	Asp	Tle	Asp	Glv	Pro	Leu	Tur	Acn	Gln	y Ly Val	2528
232		775					780					785					
234	cgc	tac	act	ata	caa	cct	aga	aac	aac	act	ccc	gag	gga	tta	gtg	aag	2576
235	Arg	Tyr	Thr	Ile	Gln		Arg	Asn	Asn	Thr	Pro	Glu	Gly	Leu	Val	Lys	
	790					795					800					805	
238	att	gac	ttc	aca	act	ggt	caa	att	gag	gtg	gat	gcg	aac	gag	gcg	atc	2624
240	iie	Asp	Pne	Thr	810	GIĀ	GIn	Ile	Glu	Val 815	Asp	Ala	Asn	Glu	Ala 820	Ile	
242	gat	gca	gac	gaa	ccc	tgg	cgc	ttc	tac	ttg	tac	tac	acc	gtc	atc	gct	2672
243	Asp	Ala	Asp	Glu	Pro	Trp	Arg	Phe	Tyr	Leu	Tyr	Tyr	Thr	Val	Ile	Āla	
244				825					830					835			,
246	agc	gac	gag	tgc	tcc	ctg	gaa	aac	cgc	acg	gaa	tgt	cct	cca	gat	tcc	2720
247	Ser	Asp		Cys	Ser	Leu	Glu		Arg	Thr	Glu	Cys	Pro	Pro	Asp	Ser	•
248			840					845					850				
250	aac	Tac	LLC	gaa	gtt	cca	ggc	gat	atc	gaa	ata	gaa	atc	atc	gac	aca	2768
252	ASII	855	Pne	Glu	vaı	Pro		Asp	He	Glu	Ile		Ile	Ile	Asp	Thr	
	220			~+~			860					865					
255	Acn	Agn	Tuc	gtg	Dwo	gag	ccg	CTC	act	gag	aag	ttc	aac	acg	acg	gtg	2816
256	870	non	пур	Val	LIO	875	L T.O	ьeи	THE	GIU		rne	Asn	rnr	Thr		
		atc	taa	gag	aat		acc	200	aaa	a20	088	a+ ~	a+-	<b>an</b> -		885	2266
259	Tvr	Val	Trn	Glu	Asp	Δla	Thr	Ser	Glv	yac Aer	Glu	y Lý Val	yec	cag	ctg	Tac	2864
260	-1-		1	Jiu	890	····u	T 11T	DET	GTĀ	895	GIU	val	vaı	GIII	ьеи 900	ıyr	
	tcc	cac	gac	cgt		aσa	σac	σaσ	tta		cac	асп	αta.	cas	tan	aca	2912
				, , , , ,	J J			J-3			J	~~9	g cu/	-ya	cac	acy	Z 7 1 Z

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Input Set : A:\Seqlist.txt

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263 264	Ser	His	Asp	Arg 905		Arg	Asp	Glu	Leu 910	Tyr	His	Thr	Val	Arg 915	Tyr	Thr	
266	atg	aac	ttt	aca	ata	aac	CCC	cga	cta	caa	gat	ttc	ttc	gag	ata	ga C	2960
	Met																2,00
268	1100	ASH	920	AIG	VUI	ASII	110	925	Lieu	AIG	изр	FIIC		GIU	Val	ASP	
													930				
2/0	ctg	gac	act	ggt	cgc	CTT	gag	gtg	cat	tac	ccg	ggg	gac	gaa	aaa	ttg	3008
	Leu		Thr	Gly	Arg	Leu		Val	His	Tyr	Pro		Asp	Glu	Lys	Leu	
272		935					940					945					
274	gac	cgc	gat	ggg	gat	gag	cct	aca	cat	act	atc	ttt	gta	aat	ttc	atc	3056
	Asp																
	950	-	_	_	_	955					960					965	
	gat	aac	ttc	+++	tct		aat	gac	aat	agg		220	Car	a a a	~==		3104
279	Asp	Λen	·Dha	Dhe	Sor	Acn	612	Acn	79°	720	λra	Agn	Cla	nan	Clu	y	2104
280	кър	ASII	FILE	FIIC		кэр	GIY	кэр	GLY		Arg	ASII	GIII	ASP		val	
					970					975					980		
	gaa																3152
	Glu	Ile	Phe			Leu	Leu	Asp	Val	Asn	Asp	Asn	Ala	Pro	Glu	Met	
284				98	-				99	-				99.			
286	cca	ttg	cct	gat	gaa	ctc	cgg	ttt	gat	gtt	tcc	gaa	gga	gca	gtt	gct	3200
287	Pro	Leu	Pro	Asp	Glu	Leu	Arg	Phe	Asp	Val	Ser	Glu	Gly	Ālā	Val	Ala	
288			1000				-	100!					1010			1,4	
290	ggt	atc	cat	αta	ctc	cca	σаа	atc	tac	aca	cca	gac					3248
291	Gly	Val	Ara	Val	Leu	Dro	Glu	Tlo	Tur	712	Dro	7 cn	722	300	Clu	Dro	3240
292	GLY	1015		Val	пец	FIO	1020		TYL	ALG	FIU		_	ASP	Giu	PIO	
					4							1025					
294	gac	acg	gac	aac	teg	egt.	gtc	ggt	tac	gga	atc	ctg	gac	CTC	acg	atc	3296
	Asp		Asp	Asn	Ser			GTA	Tyr	GIA			Asp	Leu	Thr		
	1030					103					104					1045	
298	acc	gac	cga	gac	atc	gag	gtg	ccg	gat	ctc	ttc	acc	atg	atc	tcg	att	3344
299	Thr	Asp	Arg	Asp	Ile	Glu	Val	Pro	Asp	Leu	Phe	Thr	Met	Ile	Ser	Ile	
300					1050					105					1060		
302	gaa	aac	aaa	act	qqq	qaa	ctt	qaq	acc	qct	atq	gac	tta	agg	aaa	tat	3392
3.03	Ğlu	Asn	Lvs	Thr	Glv	Ğlu	Leu	Glu	Thr	Ála	Met	Asp	Leu	Ara	Glv	Tur	
304			-1-	1069		0	204		1070			p	Dea	1075	_	-1-	
	tgg	aac	act			2+2	++0	a++			++~	~~~				~~~	2440
207	maa	990	mb-	mana	gaa	a La	Dh-	T1.	gay	31-	חלים	yac	Cac	gge	Lac	ccg	3440
	Trp	GLY			GIU	ire	Pne			Ата	Pne	ASP			Tyr	Pro	
308			1080					1085			•		1090				
310	cag	cag	agg	tcc	aac,	gag	acg	tac	acc	ctg	gtc	atc	cgc	ccc	tac	aac	3488
311	Gln	Gln	Arg	Ser	Asn	Glu	Thr	Tyr	Thr	Leu	·Val	Ile	Arg	Pro	Tyr	Asn	
312		1095	<b>i</b>				1100	)				1105	;				
314	ttc	cac	cac	cct	gtg	ttc	gtg	ttc	ccg	caa	ccc	gac	tcc	gtc	att	cqq	3536
315	Phe	His	His	Pro	Val	Phe	Val	Phe	Pro	Gln	Pro	Āsp	Ser	Val	Ile	Ara	
	1110					1115					1120					1125	
	ctt		ασσ	gag	cac			αaa	aac	aac			aca	200	aat		3584
310	Leu	Sor	λκα	Clu	720	712	Thr.	Clu	01	01.	y	Tan	31-	mbs	31-	33-	3304
	пси	561	Arg	GIU			TIII	GIU	GLY			ьеи	АТА	TIII			
320		~-			1130		- 4 -			1135					114(		
322	aac	gag	ttc	ctg	gag	ccg	atc	taç	gcc	acc	gac	gag	gac	ggc	ctc	cac	3632
	Asn	Glu	Phe			Pro	Ile	Tyr			Asp	Glu	Asp	Gly	Leu	His	
324				1145					1150					1155			
326	gcg	ggc	agc	gtc	acg	ttc	cac	gtc	cag	gga	aat	gag	gag	gcc	gtt	cag	3680
327	Ala	Gly	Ser	Val	Thr	Phe	His	Val	Gln	Gly	Asn	Glu	Glu	Ala	Val	Gln	

VERIFICATION SUMMARY

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